FUNCTIONALITY

+

EFFICIENCY

=

BETTER HEALTHCARE SERVICE

Digital Hospital & eHealthcare

ARBOR Medical Computing

Your Trusted Design Service Provider

ARBOR®
Embedded and Network Computing

About Medical Computing Platform Design Services

About Us

We, a leading Mobile Computing provider, have been delivering numerous successful projects for our customers in terms of full fleet Tablet PCs, which let you implement new generation of Tablet PC with versatile x86-based platform.

Benefits

- x86 PC-based for your medical computing
- Industrial-standard components
- Security mechanism available
- Customizable I/O expansion
- Rich multimedia capabilities
- Faster time-to-market
- RoHS-compliant (lead-free)
- Optimized battery management

Design Services

- Design and prototyping
- Board to system integration
- Manufacturing services
- Mobile application consulting

Quality of Medical Certification

ISO 13485 QUALITY 2003 MEDICAL DEVICES

CLASSIFIED C UL US E322565 37GC

UL/EN-60601 CANCSA C22.2 NO. 601.1

Design to Win

When developing Medical PC, changing requirements and competing needs make using a standard platform very difficult. To provide the greatest flexibility for custom solutions, ARBOR provides a range of upgradable Medical PCs to overcome these challenges.

BIOS & Driver Customization

ARBOR's mission is to enable you to bring your medical solutions to the market rapidly. Software and firmware support accompanying our products are critical to accomplish our mission.

As a virtual member of your team, we offer a wide range of services, ready-to-run items and reference designed to succeed in our mission.

System-ready Integration

We welcome your participation at every stages of the board-to-system customizing processes to ensure you receive the ideal platform for your application.

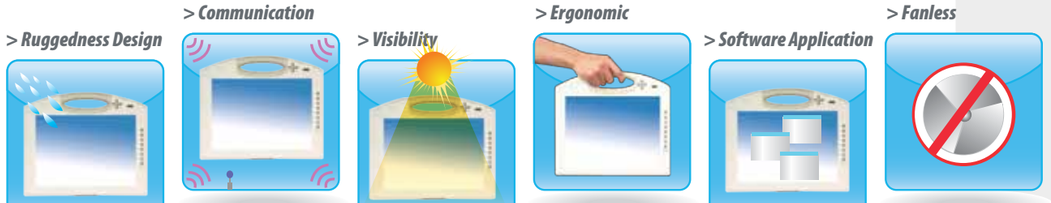
Product Lifecycle

As a member of the Intel Embedded and Communications Alliance community, ARBOR is committed to providing high performance long-term supply solutions.

Why ARBOR Medical Computing

We have identified your needs to deploy medical computing into your daily operation. With our vast experiences in **embedded design and networking practices**, we just mean to provide **operative benefits** to streamline development of new medical application and to implement software upgrades. Best of all, you're also entitled with **extended medical computing product life cycle** with our high performance / low power consumption platform and long-term product supply.

ARBOR knows every aspects of medical computing requirements



Versatility

Mobility

- Low power and long operating battery life
- Information on your fingertip via WiFi, GPS, Bluetooth and 3.75G/HSUPA
- Ultra slim & ultra light

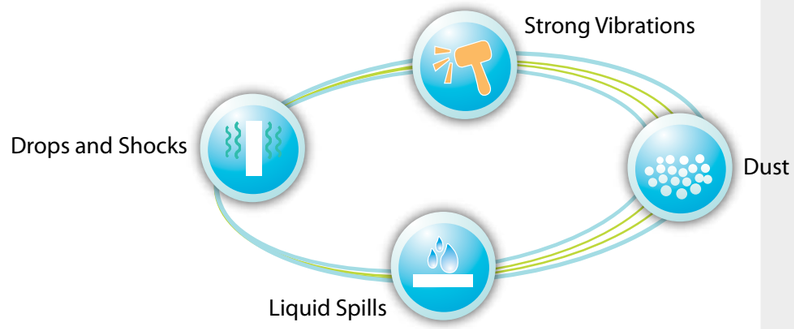
Solution-oriented

- Streamline medical operation
- Lower down medical personnel's efforts
- Improve patient-care quality
- Patient infotainment center
- Easy-access EMR and privacy protection

System Integration

- Multi data retriever (RFID, barcode and MSR)
- Passive cooling system
- Sunlight readable
- Biometric fingerprint validation for access control
- Multi-expansion by docking station

Rugged Design



Tailor-made to Your Medical Application

Mainboard Design-in

- Optional computing core
- Pre-defined peripheral and expansion
- Consideration of integrated device

Customizable Enclosure & Housing

- Optional MIL-STD-810F requirement
- Fanless
- Sunlight readable
- Peripheral integration
- Ergonomic
- Disinfectable chassis

Platform Support

- BIOS customization
- ACPI 3.0 compliant & battery optimization
- Software development kit

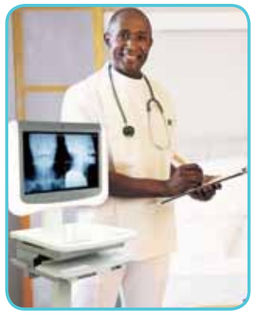
Perfect system integration from board to system for your project success.

Customer's Successful Application

> Mobile Clinical Assistant

> Clinical Documentation

> Mobile Care Station



> Point-of-care Station

Rugged Mind in Medical Design

We know your mobile computing application deploys in many unexpected environments and there is no tolerance to operating failure. It is critical to provide truly rugged computing power to you while your field personnel are equipped with our Medical PC. Hence, the following considerations will be factored into the whole design:

Drop / Shock

Accidents happen to patient-care works often, but you don't have to worry about stopping your computing works. Our medical tablets offer reliable anti-vibration and anti-shock platform. Our rugged mechanical design can withstand dropping from height of 3 feet over wooden or concrete surface.

Sealing

Waterproof rubber in each conjunction can have the effect of buffering, sealing and protecting.

Liquid Spill

Our Medical PCs are rated at IP-54/IP65. By different mechanical design, they can withstand water spray from different angle.

Medical Certification

E322565
37GC

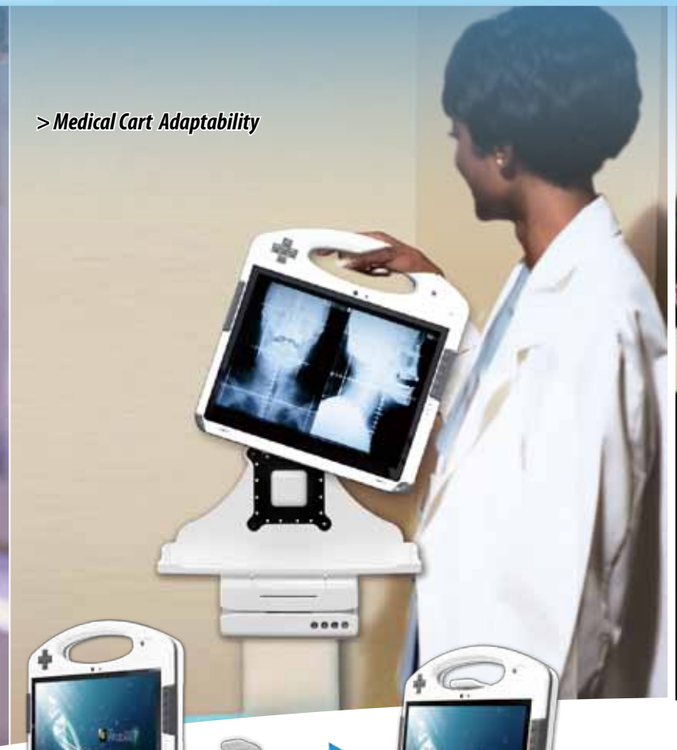
UL/EN-60601
CANCSA C22.2
NO. 601.1

EN / IEC 60601-1: Safety requirements for medical electrical system
EN / IEC 60950-1: Powered / battery powered safety
EN 55011: Radio disturbance characteristics
EN 55024: Immunity characteristics
CAN/CSA-22.2 (Canada): Industrial control equipment
RSS-210 (Canada): Radio-communication Devices
FCC CFR 47 P.2
EN 55022: EMI disturbance
ISO 13485

Mobile Clinical Assistant

> On-the-go / Ergonomic

> Identification Security



> Medical Cart Adaptability

> Expansion / Docking Station

> Hot-swappable Battery

> Data Retriever / RFID & Barcode Reader

M1040

5.5 Hours

10.4" XGA 1.3 kg
Intel® Atom™ N450 1.6GHz

Wi Fi RFID HSUPA

M1042

6.5 Hours

10.4" XGA 1.3 kg
Intel® Atom™ N2800 1.86GHZ
※Gorilla Multi Point touch screen

Wi Fi RFID HSUPA

M1255

3.5 Hours

12.1" XGA 1.6 kg
Intel® Atom™ N270 1.6GHz
※Fingerprint scanner

Wi Fi RFID

Medical Data Terminal

Features

- 7" Wide Active Matrix TFT Panel
- EN60601-1-1/EN60601-1-2/UL60601-1 Certified
- Ultra Slim (36mm Thickness), Ultra Light (1kg)
- Ultra Low Power Consumption
- Multi Connectivity (Bluetooth/WLAN/RFID/1 x GbE LAN)
- Ultra Reliability/IP54 Compliant Enclosure
- Instant Resume (Suspend to Disk/RAM)
- Passive Cooling System (Fanless)
- Ultra Long Battery Life (4 hours)

Connectivity

802.11 b/g/n

10/100/1000 Ethernet

Bluetooth

Class 2.0 +EDR

3.75G HSUPA

Visual Communication

Camera

Built-in Microphone

Status Indicators

Speaker

Customizable Function Key

Rugged & Medical-grade Mechanical Design

IP54

Anti-vibration
Shock: 10G/11 ms
Transit Drop: 4 feet drop

Docking Station

Readability

Wide Screen Touch LCD

Sunlight Readable

G0710 Specifications

System	
CPU	Intel Atom™ Z510 CPU 1.1GHz processor
Graphics Controller	Intel Poulsbo included, Advanced Low Power Graphics supporting 3.0 shadder and texture
Memory	DDRII-667 1GB soldered onboard
Chipset	Intel System Controller Hub US15W
Audio	1 x integrated Microphone, 1 x integrated 1.5W speaker
Ethernet	Reaktek RTL8111 Gigabit Ethernet
Storage	1 x Industrial Compact Flash 4GB (default) 1 x 1.8" IDE PATA ZIF 32GB Slim SSD (optional)
Camera	1 x 1.3 megapixel CMOS Camera w/Mic (front) 1 x 2.0 megapixel CMOS Camera w/o Mic (back)
RFID	ISO 15693/14443A/14443B RFID support (distance: 3~5cm; speed: 5 cards/sec)
Connectivity	WLAN 802.11 b/g/n support (built-in by USB interface) Bluetooth 2.1 + EDR support (USB interface) HSUPA (3.75G) support (optional)
I/O	
Serial Port	1 x RS-232 port
USB Port	2 x USB 2.0 ports
LAN	1 x RJ-45 GbE LAN
Power Input	1 x Power Jack
Docking Connection	1 x 35-pin pogo board for connection with docking station
SIM Socket	1 x SIM socket (located underneath the battery pack)
Button & Indicator	
LED Indicator	5 x LEDs on front panel (Power, Storage/Battery/RFID/ Bluetooth)
Function Key	8 programmable function keys on front panel (brightness up and down, volume up and down, mute on/off, bluetooth on/off, WiFi on/off, touchscreen on/off)
Power Button	1 x Power on/off switch on the top right 1 x Reset switch on the bottom right
LCD Display & Touchscreen	
Display	7" wide active matrix TFT, 1024 x 600 resistive touch panel with Stylus by USB interface (outdoor readable optional)
Brightness	375 cd/m²
Contrast	400 : 1
Backlight Type	LED
Power System	
Adapter	Power input: AC 100~240V Power output: 20VDC Output Rating: 60W
Battery	Li-Ion Battery Pack 4S1P 2600mA for Battery Life 4 hrs, ACPC support
Mechanical & Environmental	
Operating Temp	0 ~ 45°C (32 ~ 113°F)
Storage Humidity	5 to 95% (non-condensing)
Dimensions (WxDxH)	210 x 36 x 160 mm (8.26" x 1.42" x 6.29")
Gross Weight	980 g kg (2.16 lb)
Vibration	1 grms/ 5 ~ 500Hz/ random operation
Shock	10G peak acceleration (11 msec. duration)
Transit Drop	122cm (4 feet) drop to wood, 5 sides all pass, except the front panel side
IP Rating	IP54 compliant
Certification	CE/FCC Class B/EN60601-1-1/EN60601-1-2/UL60601-1

Patient Infotainment & eHealthcare Station

M1920

19” SXGA
Intel® Core™ i7-2610UE 1.5GHz

M1858

18.5” WXGA
Intel® Atom™ Dual Core N2800 1.86GHz

M1856

18.5” WXGA
Intel® Atom™ N270 1.6GHz

M1726

17” SXGA
Intel® Atom™ N270 1.6GHz

M1526

15” XGA
Intel® Atom™ N270 1.6GHz

M1525

15” XGA
Intel® Core™ 2 Duo T7400 2.16GHz
Intel® Celeron® 423 1.06GHz

> Patient Care

> Telemedicine

> Info-exchange

> Medical Cart Adaptability

M1042
Mobile Clinical Assistant

G0710
Medical Data Terminal

M1858
Patient Infotainment
& eHealthcare Station

M1920
eHealthcare Station

Digital Hospital & eHealthcare

ARBOR

磐儀科技股份有限公司
ARBOR Technology Corp.
10F., No.700, Zhongzheng Rd., Zhonghe Dist.,
New Taipei City 235, Taiwan
Tel: +886 2 8226 9396
Fax: +886 2 8226 9398
info@arbor.com.tw
www.arbor.com.tw
www.medicalpc.com.tw

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Windows® Embedded Silver Partner

ISO 13485 QUALITY 2003 MEDICAL DEVICES

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